

AD-A218 769

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DEPARTMENT OF THE ARMY

JUSTIFICATION OF ESTIMATES FOR FY 1991 BUDGET

SUBMITTED TO CONGRESS

JANUARY 1990



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WEAPONS AND TRACKED COMBAT VEHICLES

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WEAPONS AND TRACKED COMBAT VEHICLES	
AMMUNITION	OTHER

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DEPARTMENT OF THE ARMY
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991 BUDGET

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PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 1

Budget Appendix Extract

Appropriation Language
 Program and Financing Schedule
 Object Classification Schedule

3-1

STATEMENT "A" per Bill Schultz
 SAFM-BY-P
 TELECON
 3/6/90 VG

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APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$2,587,396,000 in fiscal year 1990 to remain available for obligation until September 30, 1992, and \$2,172,600,000 in fiscal year 1991 to remain available for obligation until September 30, 1993.

Procurement of W&ICV, Army
 Program and Financing (in Thousands of dollars) FISCAL YEAR 1987 29 Jan 90

Identification code	21 2033-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)		Obligations	
		1989 actual	1991 est.	1989 actual	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles			298,385	
00.0201	Weapons and other combat vehicles			38,766	
00.9101	Total direct program			337,151	
01.0101	Reimbursable program			10,825	
10.0001	Total			347,976	
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)			7,382	
13.0001	Trust funds(-)			224	
14.0001	Non-Federal sources(-)			835	
17.0001	Recovery of prior year obligations			-86,207	
Unobligated balance available, start of year:					
21.4002	For completion of prior year budget plans			-295,380	
21.4003	Available to finance new budget plans	-77,600		-77,600	
21.4009	Reprogramming from/to prior year budget plan	-25,170			
22.4001	Unobligated balance transferred to other acc	93,226		93,226	
25.0001	Unobligated balance lapsing	9,544		9,544	
39.0001	Budget authority				

Procurement of W&TCV, Army
 Program and Financing (in Thousands of dollars) FISCAL YEAR 1988

29 Jan 90

Identification code	21-2033-0-1-051	Budget plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Tracked combat vehicles				517,072	314,370	
00.0201	Weapons and other combat vehicles				13,761	2,634	
00.9101	Total direct program				530,833	317,004	
01.0101	Reimbursable program				49,251	83,600	
10.0001	Total				580,084	400,604	
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)				2,850		
13.0001	Trust funds(-)				-555		
14.0001	Non-Federal sources(-)				-98,561		
17.0001	Recovery of prior year obligations						
21.4002	Unobligated balance available, start of year:						
21.4003	For completion of prior year budget plans				-905,323	-400,604	
21.4009	Available to finance new budget plans				-71,500		
22.4001	Reprogramming from/to prior year budget plan						
24.4002	Unobligated balance transferred to other acc				92,400		
39.0001	Unobligated balance available, end of year:						
	For completion of prior year budget plans				400,604		
39.0001	Budget authority						

Procurement of W&TCV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1989 29 Jan 90

Identification code	21-2033-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Tracked combat vehicles	2,520,992			1,870,567	340,844	309,581
00.0201	Weapons and other combat vehicles	150,183			133,883	7,965	8,335
00.9101	Total direct program	2,671,175			2,004,450	348,809	317,916
01.0101	Reimbursable program	495,838			420,267	75,571	
10.0001	Total	3,167,013			2,424,717	424,380	317,916
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-379,979			-379,979		
13.0001	Trust funds(-)	-95,805			-95,805		
14.0001	Non-Federal sources(-)	-20,054			-20,054		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans					-742,296	-317,916
21.4003	Available to finance new budget plans		-39,600			-39,600	
22.4001	Unobligated balance transferred to other acc		39,600			39,600	
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				742,296	317,916	
24.4003	Available to finance subsequent year budget	39,600			39,600		
39.0001	Budget authority	2,710,775			2,710,775		
Budget authority:							
40.0001	Appropriation	2,830,921			2,830,921		
40.0004	Reduction pursuant to P.L. 100-463	-568			-568		
41.0001	Transferred to other accounts(-)	-119,578			-119,578		
43.0001	Appropriation (adjusted)	2,710,775			2,710,775		

Procurement of W&ICV, Army/
Program and Financing (in thousands of dollars) FISCAL YEAR 1990

29 Jan 90

Identification code	21-2033-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Tracked combat vehicles		2,328,753		1,623,265	421,022	
00.0201	Weapons and other combat vehicles		258,643		184,713	40,266	
00.9101	Total direct program		2,587,396		1,807,978	461,288	
01.0101	Reimbursable program		593,900		593,900		
10.0001	Total		3,181,296		2,401,878	461,288	
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)		-501,800		-501,800		
13.0001	Trust funds(-)		-92,100		-92,100		
21.4002	Unobligated balance available, start of year: For completion of prior year budget plans					-779,418	
24.4002	Unobligated balance available, end of year: For completion of prior year budget plans				779,418	318,130	
39.0001	Budget authority		2,587,396		2,587,396		
Budget authority:							
40.0001	Appropriation		2,707,611		2,707,611		
40.0005	Reduction pursuant to P.L. 101-165		-815		-815		
41.0001	Transferred to other accounts(-)		-119,400		-119,400		
43.0001	Appropriation (adjusted)		2,587,396		2,587,396		

Procurement of W&TCV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991 29 Jan 90

Identification code	21-2033-0-1-051	Budget plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Tracked combat vehicles			2,042,365			1,407,034
00.0201	Weapons and other combat vehicles			130,235			87,774
00.9101	Total direct program			2,172,600			1,494,808
01.0101	Reimbursable program			593,900			593,900
10.0001	Total			2,766,500			2,088,708
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)			-501,800			-501,800
13.0001	Trust funds(-)			-92,100			-92,100
24.4002	Unobligated balance available, end of year: For completion of prior year budget plans						677,792
39.0001	Budget authority			2,172,600			2,172,600
Budget authority:							
40.0001	Appropriation			1,312,300			1,312,300
42.2201	Transferred from other accounts (unob bal)			860,300			860,300
43.0001	Appropriation (adjusted)			2,172,600			2,172,600

Procurement of W&ICV, Army
Program and Financing (in thousands of dollars) SUMMARY

29 Jan 90

Identification code	21-2033-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
Program by activities:							
Direct program:							
00.0101	Tracked combat vehicles	2,520,992	2,328,753	2,042,365	2,686,024	2,278,479	2,137,637
00.0201	Weapons and other combat vehicles	150,183	258,643	130,235	186,410	195,312	136,375
00.9101	Total direct program	2,671,175	2,587,396	2,172,600	2,872,434	2,473,791	2,274,012
01.0101	Reimbursable program	495,838	593,900	593,900	480,343	753,071	593,900
10.0001	Total	3,167,013	3,181,296	2,766,500	3,352,777	3,226,862	2,867,912
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-379,979	-501,800	-501,800	-369,747	-501,800	-501,800
13.0001	Trust funds(-)	-95,805	-92,100	-92,100	-96,136	-92,100	-92,100
14.0001	Non-Federal sources(-)	-20,054			-19,218		
17.0001	Recovery of prior year obligations				-184,768		
21.4002	Unobligated balance available, start of year:				-1,200,703	-1,142,900	-1,097,334
21.4003	For completion of prior year budget plans	-149,100	-39,600	-39,600	-149,100	-39,600	
21.4009	Available to finance new budget plans	-46,070					
22.4001	Reprogramming from/to prior year budget plan	185,626	39,600	39,600	185,626	39,600	
22.4001	Unobligated balance transferred to other accounts						
24.4002	Unobligated balance available, end of year:				1,142,900	1,097,334	995,922
24.4003	For completion of prior year budget plans	39,600			39,600		
25.0001	Available to finance subsequent year budget	9,544			9,544		
25.0001	Unobligated balance lapsing						
39.0001	Budget authority	2,710,775	2,587,396	2,172,600	2,710,775	2,587,396	2,172,600
Budget authority:							
40.0001	Appropriation	2,830,921	2,707,611	1,312,300	2,830,921	2,707,611	1,312,300
40.0004	Reduction pursuant to P.L. 100-463	-568			-568		
40.0005	Reduction pursuant to P.L. 101-165		-815			-815	
41.0001	Transferred to other accounts(-)	-119,578	-119,400		-119,578	-119,400	
42.2201	Transferred from other accounts (unobligated balance)			860,300			860,300
43.0001	Appropriation (adjusted)	2,710,775	2,587,396	2,172,600	2,710,775	2,587,396	2,172,600
Relation of obligations to outlays:							
71.0001	Obligations incurred, net						
72.4001	Obligated balance, start of year				2,867,676	2,632,962	2,274,012
74.4001	Obligated balance, end of year				5,091,710	4,524,084	4,225,146
77.0001	Adjustments in expired accounts (net)				-4,524,084	-4,225,146	-3,794,458
78.0001	Adjustments in unexpired accounts				21,768		
					-184,768		

Procurement of W&ICV, Army
 Program and Financing (in thousands of dollars) SUMMARY 29 Jan 90

Identification code	21-2033-0-1-051	1989 actual	1990 est.	1991 est.
90.0001	Outlays	3,272,303	2,931,900	2,704,700

Procurement of W&ICV, Army
Object Classification (in thousands of dollars) SUMMARY

29 Jan 90

Identification code	21-2033-0-1-051	1989 actual	1990 est.	1991 est.
Direct obligations:				
Other services:				
125.004	Other	615,591	550,945	551,064
126.001	Supplies and materials	338,855	379,510	379,592
131.001	Equipment	1,917,988	1,543,336	1,343,356
199.001	Total Direct obligations	2,872,434	2,473,791	2,274,012
Reimbursable obligations:				
Other services:				
225.004	Other	102,943	138,451	138,451
226.001	Supplies and materials	56,665	95,369	95,369
231.001	Equipment	320,735	519,251	360,080
299.001	Total Reimbursable obligations	480,343	753,071	593,900
999.901	Total obligations	3,352,777	3,226,862	2,867,912

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 2

Budget Activity Justification

Activity 1 - Tracked Combat Vehicles

Activity 2 - Weapons and Other Combat Vehicles

Department of the Army Annual Budget Estimate JUSTIFICATION	Appropriation PROCUREMENT OF WEAPONS & TRACKED COMBAT VEHICLES, ARMY	FY1991 Budget	
		(Thousands of Dollars)	
Program or Budget Project Account		Actual	Estimate
Activity 1 - Tracked Combat Vehicles		FY 1989	FY 1990
Direct Budget Plan		\$2,520,992	\$2,328,753
	Section 1 - PURPOSE AND SCOPE		FY 1991
			\$2,042,365

Provide for procurement of tracked combat vehicles including Abrams Tanks; Bradley Fighting Vehicle System; training equipment; and associated equipment. The request also provides for modification kits and related production base support.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Tracked Combat Vehicles - The requested funding provides for procurement of the following tracked combat vehicles to improve readiness and meet modernization goals: Abrams Tank, and Bradley Fighting Vehicle System. To further improve Army materiel readiness of high priority combat vehicles, funds are requested for the following modification programs: Enhancement of M109 Self-Propelled Howitzers, retrofit of Bradley Fighting Vehicle System with preplanned product improvements, and modification kits for the M1 Series tanks. Each major item included in this request is discussed below:

Bradley Fighting Vehicles Family (MYP) (P-1 Line Item No. 1):

(\$ in Thousands)	
FY 1990	FY 1991
\$540,117	\$657,360

These funds are requested for procurement of 600 Bradley Fighting Vehicles in FY90 and FY91. The Bradley is indispensable to the Mechanized Infantry and Cavalry forces and is compatible with the M1 Main Battle Tank. It provides improved firepower, cross-country mobility, and ballistic protection to infantry squads and cavalry sections. The

armament is designed to engage an array of enemy targets and will include a two-man turret employing a 25mm automatic cannon, the TOW 2 antitank guided missile system, as well as a 7.62mm coaxial machine gun, all utilizing an integrated day/night thermal sight. Interior configuration varies in the Cavalry Fighting Vehicle to allow for differences in crew manning and stowage requirements. All vehicles procured will be A2 versions which incorporate survivability enhancements and other design changes.

Advance Procurement, Bradley Fighting Vehicles Family (MYP)
(P-1 Line Item No. 2):

	(\$ in Thousands)
FY 1990	FY 1991
\$67,700	\$30,500

These funds are requested for multiyear procurement of long-lead and advance economic order quantities of manufacturing items and components to support the production of Infantry and Cavalry Fighting Vehicles.

Bradley Fighting Vehicle System Training Devices (P-1 Line Item No. 3):

	(\$ in Thousands)
FY 1990	FY 1991
\$12,309	-0-

These funds provide the Bradley Fighting Vehicle System with simulators designed to train operators and mechanics. Gunners will be trained in gunnery skills in a realistic tactical scenario; organizational and Direct Support/General Support (DS/GS) maintenance personnel will be trained in periodic checks, troubleshooting and fault isolation skills, and repair procedures.

Field Artillery Ammunition Support Vehicle (P-1 Line Item No. 5):

	(\$ in Thousands)
FY 1990	FY 1991
\$45,000	-0-

These funds provide for the procurement of 72 Field Artillery Ammunition Support Vehicles (FAASV's) which replace the M548 Ammunition Vehicle.

M1 Abrams Tank Training Devices (P-1 Line Item No. 7):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$12,886</u>	<u>\$15,039</u>

These funds are requested for procurement of Tank Driver Trainers.

M1 Abrams Tank Series (MYP) (P-1 Line Item No. 8):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$972,435</u>	<u>\$747,324</u>

These funds are requested to procure 481 M1A1 tanks in FY90 and 163 M1A1 and 62 M1A2 Tanks in FY91. The Abrams Tank in M1A1 and M1A2 configuration will replace the M60 and M1 tanks in selected units and allow for continued modernization of the Army tank fleet. It has significantly improved survivability over current tanks providing better armor protection and compartmentalization of ammunition and fuel. Its 1500 hp turbine engine and improved suspension system provide unprecedented mobility and stability as a weapons platform. The Abrams counters the enemy threat now and will be effective well into the 1990's. The M1A2 possesses significant operational and survivability improvements over the M1A1 tank.

Advance Procurement, M1 Abrams Tank Series (MYP):
(P-1 Line Item No. 9)

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$245,000</u>	<u>-0-</u>

These funds provide for procurement of long-lead manufacturing items, components, and government-furnished equipment to support the procurement of tanks in FY 91.

Bradley Fighting Vehicle System Series (Mod) (P-1 Line Item No. 11):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$31,848</u>	<u>\$146,135</u>

These funds are requested to continue retrofit of BFVS Preplanned Product Improvements which were introduced in FY 87. FY 90 provides funding for 600-HP powerpack modifications.

FY 91 provides funding for continued 600-hp powerpack modifications and survivability improvements. FY 91 funding includes funds to install the Bradley modifications.

<u>Howitzer, Medium, SP, FT, 155 mm, M109 Series (Mod) (P-1 Line Item No. 12):</u>	(\$ in Thousands)
	FY 1990 FY 1991
	<u>\$75,477</u> <u>\$206,827</u>

These funds are requested for procurement of Howitzer Improvement Program (HIP) kits. These modifications are designed to improve the readiness and survivability of M109 series howitzers.

M1 Abrams Tank (Mod) (P-1 Line Item No. 13):

(\$ in Thousands)
FY 1990 FY 1991
<u>\$36,228</u> <u>\$80,137</u>

These funds are requested for lethality, survivability, safety, and operational enhancements. The increase of FY 91 over FY 90 funding supports mission transfer from Operations and Maintenance, Army to WTCV for application of modifications, incorporating the tactical solutions for Armament Enhancement Initiative, and the redesign of the manual gun firing circuit.

9MM (P-1 Line Item No. 14):

(\$ in Thousands)
FY 1990 FY 1991
<u>\$491</u> <u>-0-</u>

These funds are programmed for procurement of equipment for a classified project.

Modifications Less Than \$2.0M (TCV-WTCV) (P-1 Line Item No. 15):

(\$ in Thousands)
FY 1990 FY 1991
<u>-0-</u> <u>\$1,000</u>

These funds are requested for minor modification to combat vehicles with a cost less than \$2M.

Total Package Fielding (P-1 Line Item No. 16):

(\$ in Thousands)	
FY 1990	FY 1991
-0-	\$63,600

These funds are requested to effect a total system fielding. Total Package Fielding provides for the concurrent fielding of a materiel system and all its required support. The process minimizes the logistics burden on the gaining Major Command related to the fielding process. Funds will provide for Authorized Stockage List/Prescribed Load List (ASL/PLL), coordination, transfer, and deprocessing. Total Package Fielding previously funded within the Operations and Maintenance budget.

Host Nation Support (P-1 Line Item No. 17):

(\$ in Thousands)	
FY 1990	FY 1991
\$53,981	-0-

These funds complete procurement of German-manufactured crew served weapons to equip 100 German Army Reserve units which will provide dedicated security and combat support/combat service support to US Forces under the terms and conditions of the 1982 US-German Wartime Host Nation Support Agreement. Units are critical to the deployment and sustainment of the US 10 Division D-Day Force and associated Flying Squadrons. These units provide anti-air, ground, and armor capabilities to serve U.S. Army activities within the rear areas and along lines of communication. German units also protect U.S. Army Lance Missile sites and are capable of encountering up to battalion-size enemy elements in the rear areas.

Spares and Repair Parts (TCV-WTCV) (P-1 Line Item No. 18):

(\$ in Thousands)	
FY 1990	FY 1991
\$204,656	-0-

These funds provide for procurement of replenishment spares and repair parts related to tracked combat vehicles. Initial spares support the following systems:

System	FY 1990	FY 1991
M1 Abrams Tank	\$60,800	-0-
Bradley Fighting Vehicle System	19,000	-0-
Howitzer, Med, M109, (Mod)	200	-0-
TOTAL	\$80,000	-0-

Replenishment spares and repair parts are requested in the amount of \$124,656 for FY 1990. All procurement spares will be stock-funded beginning in FY 91.

Items Less Than \$2 Million (TCV-WTCV) (P-1 Line Item No. 19):

(\$ in Thousands)
FY 1990
<u>\$1,684</u>
FY 1991
<u>\$955</u>

Funds are requested for procurement of maintenance and repair equipment for tracked combat vehicles. Equipment to be procured includes shop sets and tool kits.

Production Base Support (TCV-WTCV) (P-1 Line Item No. 20):

(\$ in Thousands)
FY 1990
<u>\$22,542</u>
FY 1991
<u>\$83,166</u>

These funds are requested to rehabilitate/replace industrial plant equipment at tank and spare parts production facilities; to layaway industrial equipment excess to current requirements (closure of Detroit Arsenal Tank Plant); to correct EPA/OSHA, fire, and safety deficiencies; to perform critical facilities improvements to government facilities; and to provide replacement and initial depot maintenance plant equipment and also depot modification equipment, particularly for the M1 Tank and the Bradley Fighting Vehicle System.

Project #	Title	(\$ in Thousands)
PROVISION OF INDUSTRIAL FACILITIES (PIF)		
49x3002	Omnibus Concept/Final Design of Construction Projects	500
49x6037	Production Support for Lima Army Tank Plant	1,975
49x6040	Omnibus Production Support and Equipment Replacement at M1 Production Facilities	1,455
19x8173	Production Support at Stratford Army Engine Plant	4,000
		2,000
	TOTAL PROVISION OF INDUSTRIAL FACILITIES (TCV)	7,930
		11,929

LAYAWAY OF INDUSTRIAL FACILITIES (LIF)

4Xx4281	Omnibus Packaging, Handling and Transportation of Excess Equipment	59	500
4Xx4281	Closure of the Detroit Army Tank Plant	-0-	62,142
TOTAL LAYAWAY OF INDUSTRIAL FACILITIES		59	62,642

DEPOT MAINTENANCE PLANT EQUIPMENT (DMPE)

G9x0020	Equipment Replacement at Mainz Army Depot	-0-	2,402
G9x0053	Omnibus Support of Miscellaneous Tracked Combat Vehicles	3,185	1,600
G9x0153	Omnibus Support of M1 Tank	5,373	-0-
G9x0253	Omnibus Support of Bradley Fighting Vehicle	5,995	4,593
TOTAL DEPOT MAINTENANCE PLANT EQUIPMENT (TCV)		14,553	8,595

Regional Maintenance Training Sites-Equip (P-1 Line Item No. 21):

(\$ in Thousands)	
FY 1990	FY 1991
\$6,399	\$10,322

These funds will procure system components (e.g., M1 engines, M1 transmissions, M60A3 engines) to support training at Regional Maintenance Training Sites. System component requirements are specified in Programs-of-Instruction. These funds will outfit all nineteen Regional Maintenance Training Sites to minimum Program-of-Instructions standards.

Department of the Army Annual Budget Estimate JUSTIFICATION	Appropriation			FY1991 Budget
	PROCUREMENT OF WEAPONS & TRACKED COMBAT VEHICLES, ARMY			
	(Thousands of Dollars)			
	Actual	Estimate	Estimate	
	FY 1989	FY 1990	FY 1991	
Program or Budget Project Account				
Activity 2 - Weapons and Other Combat				
Direct Budget Plan	\$150,183	\$258,643	\$130,235	

Section 1 - PURPOSE AND SCOPE

Provides for procurement of weapons and other combat vehicles including towed howitzers, mortars, machine guns, small arms, and associated equipment. The request also provides for modification kits, related production base support, and depot maintenance plant equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Weapons and Other Combat Vehicles - The requested funding level provides for continued procurement of the Vehicle Rapid Fire Weapon System (VRFWS) weapons, VRFWS advance procurement, Smoke Grenade Launcher, and the M119 Light Howitzer. Funding is also requested for the procurement of the 9mm Personal Defense Weapon, Squad Automatic Weapon (SAW), 120mm Mortar, and M16 Rifle. Each item included in this request is discussed below:

Howitzer, Light, Towed, 105MM M119 (P-1 Line Item No. 22):

	(\$ in Thousands)
FY 1990	FY 1991
\$4,000	\$26,235

This light Howitzer provides increased range and lethality for the light divisions over the older 105MM models. The requested funding level for FY 90 of \$24.6M was reduced to \$4.0M due to delayed deliveries by Royal Ordnance, U.K.. In FY 90, production will begin in the U.S. arsenal system, completing transition from Royal Ordnance, U.K.. In FY 91, requested funds are required to maintain U.S. production.

SOF Weapons (P-1 Line Item No. 23):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$1,892</u>	<u>-0-</u>

These funds are for the procurement of a Special Operations Force weapon pool for training purposes. In addition, funds will procure a Ranger anti-armor, anti-personnel weapon system as a replacement for the M-67 recoilless rifle. FY 91 funding moved to U.S. Special Operations Command, a Defense Agency.

Machine Gun, 5.56MM (SAW) (P-1 Line Item No. 24):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$11,648</u>	<u>\$12,450</u>

These funds are requested for the procurement of 5932 Squad Automatic Weapons in FY 90 and 7241 in FY91. This lightweight machine gun delivers a high rate of sustained fire and has increased range which will greatly enhance the effectiveness of the infantry rifle squad.

Grenade Launcher, Auto, 40mm, MK 19-3 (P-1 Line Item No. 25):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$19,736</u>	<u>-0-</u>

These funds are for the procurement of 1340 MK 19-3 Grenade Launchers in FY 90. This grenade machine gun delivers high explosive anti-personnel and anti-light armor grenades to 2200 meters which greatly enhances the firepower of the infantry platoon and combat service support units. Program will be terminated with the FY 90 procurement.

Launcher, Smoke Grenade (P-1 Line Item No. 26):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$1,594</u>	<u>\$1,732</u>

These funds are requested to continue procurement of protective smoke systems for combat vehicles. The launcher provides near instantaneous smoke protection and is a defensive aid against antitank missiles. Funding requested is to procure 2508 systems in FY 90 and 2763 systems in FY 91.

Mortar, 120MM (P-1 Line Item No. 27):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$10,854</u>	<u>\$12,326</u>

These funds are requested to continue procurement of the 120mm Mortar. The 120mm Mortar provides significantly improved growth potential, standardization, and effectiveness compared to the World War II vintage 4.2 inch mortar. These funds procure 99 mortars in FY 90 and 196 in FY 91.

M16 Rifle (P-1 Line Item No. 28):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$14,179</u>	<u>\$14,786</u>

These funds will provide for procurement of 32,800 rifles in FY 90 and 33,160 in FY 91. The M16A2, an improved version, incorporates improvements in sights, pistol grip, stock, and overall combat effectiveness. The US Navy is also procuring the M16A2 rifle in FY 90 and FY 91. In FY 91, the Marine Corps and Air Force are also procuring the M16A2 rifle.

Sniper Weapon System (P-1 Line Item No. 29):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$3,770</u>	<u>-0-</u>

These funds provide for procurement of 1010 Sniper Weapon Systems in FY 90. The Sniper Weapon System provides long range, precision firepower for Special Operations Forces and Infantry battalions.

Personal Defense Weapon, 9MM (P-1 Line Item No. 30):

(\$ in Thousands)	
FY 1990	FY 1991
<u>-0-</u>	<u>\$8,021</u>

These funds are requested for procurement of 35,101 semiautomatic pistols in FY 91. FY 85 was the first year of a ten year Army procurement of new 9mm handguns to standardize the inventory and replace the M1911A1 caliber .45 handguns and caliber .38 revolvers with 4-inch barrels. The 9mm handgun enhances NATO Rationalization, Standardization, and Interoperability (RSI) efforts.

Vehicle Rapid Fire Weapon System-Bushmaster (MYP) (P-1 Line Item No. 31):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$18,719</u>	<u>\$25,466</u>

These funds are requested for the procurement of 560 25mm Vehicle Rapid Fire Weapon Systems in FY 90 and 611 in FY 91 (beginning of a three-year multi-year contract). This weapon system, also known as the Bushmaster, is the primary armament for the Bradley Fighting Vehicle. FY 90 is the last year of the current five-year multi-year procurement.

Advance Procurement, Vehicle Rapid Fire Weapon System (Bushmaster)(MYP)
(P-1 Line Item No. 32):

(\$ in Thousands)	
FY 1990	FY 1991
<u>-0-</u>	<u>\$2,000</u>

These funds are requested for long-lead castings, forgings, and economic order quantity materials to support the Vehicle Rapid Fire Weapon System.

M16A1 Rifle Mods (P-1 Line Item No. 33):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$3,990</u>	<u>\$5,623</u>

These funds are requested to support the Army rebuild program for the M16A1 rifle. M16A1 rifles will be rebuilt to the Army standard M16A2 configuration. Funding provides for 21,586 mod kits in FY 90 and 24,365 in FY 91.

Modifications Less Than \$2.0 Million (WOCV-WTCV) (P-1 Line Item No. 34):

(\$ in Thousands)	
FY 1990	FY 1991
<u>\$483</u>	<u>\$608</u>

These funds are requested for minor modifications of weapons and other combat vehicles with a cost less than \$2.0 Million. Included are minor modifications to the M198 Howitzer.

Modernization of Equipment-O&M Transfer (P-1 Line Item No. 35):

(\$ in Thousands)
FY 1990
\$134,380
FY 1991
-0-

These funds support application of the modification kits for the M1 Abrams, Bradley Fighting Vehicle, M113 Family, 105MM Howitzer, 155MM (HIF), 5.56MM Machine Gun (SAW), M16 Rifle, and the Smoke Grenade Launcher. Funding was transferred from Operations and Maintenance, Army, and in FY 91 funds will be distributed in specific weapon system modification lines.

Spares and Repair Parts (WOCV-WTCV) (P-1 Line Item No. 36):

(\$ in Thousands)
FY 1990
\$11,991
FY 1991
-0-

These funds are for initial and replenishment spares and repair parts related to weapons and other combat vehicles. Initial spares will support the following systems:

	FY 1990	FY 1991
<u>System</u>		
Howitzer, Light, Towed, 105mm, M119	\$300	-0-
Mortar, 120mm	100	-0-
TOTAL	<u>\$400</u>	<u>-0-</u>

Replenishment spares and repair parts costing \$11,591 are budgeted in FY 90. All procurement spares will be stock-funded beginning in FY 91.

Items Less than \$2.0 Million (WOCV-WTCV) (P-1 Line Item No. 37):

(\$ in Thousands)
FY 1990
\$1,035
FY 1991
\$1,999

These funds are requested for procurement of shop sets and tool sets for maintenance and repair of weapons and other combat vehicles.

Production Base Support (Weapons and Other Combat Vehicles--WTCV) (P-1 Line Item No. 38):

	(\$ in Thousands)
FY 1990	FY 1991
\$13,972	\$17,436

These funds are requested to continue productivity improvements at the manufacturing facilities at Watervliet Arsenal and Rock Island Arsenal and in production test facilities in support of weapon systems; to provide annual support of the production test facilities; to layaway industrial equipment excess to production requirements; and to provide initial and replacement depot maintenance plant equipment; supported are the Product Improved Vehicle Systems; Lightweight Air Defense System; M1 Tank; Bradley Fighting Vehicle System; M113 family of vehicles; cannons--105, 120 and 155 MM; 30 and 40 MM Air Defense Systems; M198 and M109 Howitzers; MK19 grenade launcher; M16 rifle; and 120 MM mortar.

PROJECT #	TITLE	FY 1990	FY 1991
<u>PROVISION OF INDUSTRIAL FACILITIES (PIF)</u>			
09x5263	Support of Production Test Facilities at Aberdeen Proving Grounds	800	1,500
09x5268	Support of Production Test Facilities at Yuma Proving Grounds	1,399	1,500
69x8224	Production Test Equipment at Armament Research & Development Center	500	869
69x8824	All Angle Simulator Rock Island Arsenal	2,692	-0-
69x8930	Group Technology Rock Island Arsenal	1,001	-0-
69x9043	Shop Graphics Rock Island Arsenal	845	-0-
69x9044	Computer Aided Process Engineer Rock Island Arsenal	1,952	-0-
69x9045	Manufacturing Planning & Integration System Rock Island Arsenal	1,740	-0-
69x9048	Computer Integrated Manufacturing Watervliet Arsenal	2,151	4,503
69x9103	Flexible Robotic Welding System Rock Island Arsenal	-0-	4,892
69x9104	Master Scheduling/Control Integration Rock Island Arsenal	-0-	2,608
	TOTAL PROVISION OF INDUSTRIAL FACILITIES (WOCV)	13,080	15,872

LAYAWAY OF INDUSTRIAL FACILITIES (LIF)

69X7667 Omnibus Packing, Handling and Transportation of
Excess Equipment
TOTAL LAYAWAY OF INDUSTRIAL FACILITIES

892 1,127

DEPOT MAINTENANCE PLANT EQUIPMENT (DMPE)

G9x0054 Omnibus Support for WOCV
TOTAL DEPOT MAINTENANCE PLANT EQUIPMENT

-0- 437

Industrial Preparedness (P-1 Line Item No. 39):

(\$ in Thousands)
FY 1990 FY 1991
\$6,400 \$1,553

These funds are requested to maintain laidaway portions of plants and laidaway equipment which will be used in manufacturing critical items needed by the Army, Navy, Marines, National Guard, and Reserves for mobilization; items supported include Mortars M19, M224, M29A1, M252, M30; Cannons M199, M19, M185, M201A1, M224, M201, M29A1, M252, M30, M2A2, M119, M28A1, M256, M137A1; 16" Gun MK7-0; Howitzer M101A1, M119, M102, M198, M39; Grenade Machine Gun MK1; M16 Rifle; Machine Guns M60, M60E3, M2, M60D, FLEXM2; Grenade Launcher M203; M197 Gatling Gun; and M231 Port Firing Weapon. These funds were transferred from Operations and Maintenance, Army.

Project #

Title

INDUSTRIAL PREPAREDNESS

(\$ in Thousands)
FY 1990 FY 1991

69x7670 Industrial Preparedness Armament, Munitions and Chemical Command 1,911 484
G9x2100 Industrial Preparedness Depot Systems Command 4,219 1,069
49x4290 Industrial Preparedness Tank Automotive Command 270 -0-

TOTAL INDUSTRIAL PREPAREDNESS

6,400 1,553

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 3

Comparison of Program Requirements and Financing

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 3

Comparison of Programing Requirements and Financing

Comparison of FY 1990 program requirements as reflected in the FY 1990/1991 Amended Budget with FY 1990 program requirements as shown in the FY 1991 Budget Estimate.

Comparison of FY 1990 financing as reflected in the FY 1990/1991 Amended Budget with FY 1990 financing as shown in the FY 1991 Budget Estimate.

Comparison of FY 1989 program requirements as reflected in the FY 1990/1991 Amended Budget with FY 1989 program requirements as shown in the FY 1991 Budget Estimate.

Comparison of FY 1989 financing as reflected in the FY 1990/1991 Amended Budget with FY 1989 financing as shown in the FY 1991 Budget Estimate.

COMPARISON OF FY 1990 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1990/1991 AMENDED BUDGET
WITH THE FY 1990 PROGRAM REQUIREMENTS AS SHOWN
IN THE FY 1991 BUDGET ESTIMATE
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	FY 1990 Requirements Per FY 1990/1991 Amended Budget	FY 1990 Requirements Per FY 1991 Budget Estimate	Increase (+) or Decrease (-)
Procurement of Weapons and Tracked Combat Vehicles, Army			
Activity 1 - Tracked Combat Vehicles	2,568,803	2,328,753	-240,050
Activity 2 - Weapons and Other Combat Vehicles	155,197	258,643	+103,446
TOTAL	2,724,000	2,587,396	-136,604

EXPLANATION BY ACTIVITY

Activity 1 - Tracked Combat Vehicles - The net decrease resulted from Congressional adjustments to the Bradley (\$-27,000), M-1 Tank (\$-50,849), FAASV (\$45,000), BFVS Mods (\$-6,750), M-1 Tank Mods (\$-6,100), Spares (\$-50,400), Production Base Support (\$-32,900), general reduction for contractor travel/consultants (\$-651), and reprogramings for OSD Drug Interdiction (\$-30,000), Military Pay Army (\$-60,400), Real Property Maintenance (\$-5,000) and Classified Programs (\$-15,000).

Activity 2 - Weapons and Other Combat Vehicles - The net increase resulted from Congressional adjustments to M119 Howitzer (\$-20,631), 9mm Handgun (\$-7,539), Industrial Preparedness (\$6,400), Installation of Modernization Equipment (\$134,380), general reduction for contractor travel/consultants (\$-164) and Army reprogramming for Military Pay (\$-9,000)

COMPARISON OF FY 1990 FINANCING AS REFLECTED
IN THE FY 1990/1991 AMENDED BUDGET WITH FY 1990 FINANCING
AS SHOWN IN FY 1991 BUDGET ESTIMATE

(In Thousands of Dollars)				
Appropriation	FY 1990	FY 1990	FY 1990	FY 1990
Procurement of Weapons and Tracked	Financing Per	Financing Per	Financing Per	Increase (+)
Combat Vehicles, Army	FY 1990/1991	FY 1991	FY 1991	or
	Amended Budget	Budget Estimate	Budget Estimate	Decrease (-)
Program Requirements (Total)	3,411,100	3,181,296		-229,804
Program Requirements (Service Account)	(2,724,000)	(2,587,396)		(-136,604)
Program Requirements (Reimbursable)	(687,100)	(593,900)		(-93,200)
Less:				
Anticipated reimbursements	-687,100	-593,900		+93,200
Unobligated balance available to finance new budget plans		-39,600		-39,600
Add:				
Unobligated balance transferred to other accounts		+39,600		+39,600
BUDGET AUTHORITY				
Appropriation	2,724,000	2,587,396		-136,604

EXPLANATION:

The reimbursable program (offsetting collections) decreased by \$93,200 because actual orders were less than anticipated.

The unobligated balance available to finance new budget plans and unobligated balance transferred to other accounts resulted from an Army reprogramming for Abrams Tank Block II Development Program (\$39,600).

COMPARISON OF FY 1989 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1990/1991 AMENDED BUDGET
WITH THE FY 1989 PROGRAM REQUIREMENTS AS SHOWN
IN THE FY 1991 BUDGET ESTIMATE
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	FY 1989 Requirements Per FY 1990/1991 Amended Budget	FY 1989 Requirements Per FY 1991 Budget Estimate	Increase (+) or Decrease (-)
Procurement of Weapons and Tracked Combat Vehicles, Army			
Activity 1 - Tracked Combat Vehicles	2,652,614	2,520,992	-131,622
Activity 2 - Weapons and Other Combat Vehicles	167,739	150,183	-17,556
TOTAL	2,820,353	2,671,175	-149,178

EXPLANATION BY ACTIVITY

Activity 1 - Tracked Combat Vehicles - The net decrease resulted from Army reprogramings for Operations and Maintenance, Army (\$-71,742), Environmental and Safety Requirements at Army Installations (\$-14,842) and Abrams Tank Block II Development Program (\$-39,600) for transfer to the Coast Guard (\$-17,300) and below-threshold reprogramings (\$+11,862).

Activity 2 - Weapons and Other Combat Vehicles - The decrease resulted from an Army reprogramings for Operations and Maintenance, Army (\$-5,694), net below-threshold reprogramings (\$-11,862).

COMPARISON OF FY 1989 FINANCING AS REFLECTED
IN THE FY 1990/1991 AMENDED BUDGET WITH FY 1989 FINANCING
AS SHOWN IN FY 1991 BUDGET ESTIMATE

	(In Thousands of Dollars)			
	FY 1989 Financing Per FY 1990/1991 Amended Budget	FY 1989 Financing Per FY 1991 Budget Estimate	FY 1989 Increase (+) or Decrease (-)	
Appropriation				
Procurement of Weapons and Tracked Combat Vehicles				
Program Requirements (Total)	3,412,053	3,167,013	-245,040	
Program Requirements (Service Account)	(2,820,353)	(2,671,175)	(-149,178)	
Program Requirements (Reimbursable)	(571,700)	(495,838)	(-95,862)	
Less:				
Anticipated reimbursements	-591,700	-495,838	+95,862	
Unobligated balance available to finance new budget plans	-149,100	-149,100	0	
Reprogramming from/to prior year budget plans		-46,070	-46,070	
Add:				
Unobligated balance transferred to other accounts	149,100	185,626	+36,526	
Unobligated balance available to finance subsequent year budget plans		39,600	+39,600	
Unobligated balance lapsing		9,544	+9,544	

BUDGET AUTHORITY

Appropriation

2,820,353 2,710,775 -109,578

EXPLANATION:

The reimbursable program (offsetting collections) decreased by \$95,862 because actual orders did not materialize as anticipated.

The reprogramming to/from prior year budget plans was adjusted: FY 1987 reprogrammings for UN Peacekeeping (\$-2,737), Humanitarian Aid (\$-12,739), Environmental Restoration (\$-150), FY 1988 reprogrammings to UN Peacekeeping (\$-6,300), classified program (\$-14,600) and unobligated balance lapsing (\$-9,544).

The unobligated balance transferred to other accounts resulted from an FY 1987 (\$-2,737) and FY 1988 (\$-6,300) United Nations Peacekeeping Transfer, FY 1987 transfer for Humanitarian Aid (\$-12,739), FY 1987 Transfer for Environmental Restoration (\$-150) and FY 1988 for Classified Program (\$-14,600).

The unobligated balance available to finance subsequent year budget plans resulted from an anticipated FY 1989 reprogramming for Abrams Tank Block II Development Program (\$39,600).